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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,093	05/02/2006	Paula Fernstrom	1103326-0740	4676
7470 7590 10/07/2008 WHITE & CASE LLP			EXAMINER	
PATENT DEPA	ARTMENT	,	THOMAS, TIMOTHY P	
1155 AVENUE OF THE AMERICAS NEW YORK, NY 10036			ART UNIT	PAPER NUMBER
,			1614	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/578,093	FERNSTROM ET AL.	
Office Action Summary	Examiner	Art Unit	
	TIMOTHY P. THOMAS	1614	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>02 M</u> This action is FINAL . 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 20-37 is/are pending in the application 4a) Of the above claim(s) is/are withdrage 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 20-37 are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list.	nts have been received. Its have been received in Applicat Pority documents have been receiven Tau (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

1. The Requirement for Election/Restriction, mailed 9/24/2008, is vacated. The following Requirement, based on the amended claim set (claims 20-37), replaces the previous Requirement (that was based on canceled claims 1-19).

Election/Restrictions

REQUIREMENT FOR UNITY OF INVENTION

2. As provided in 37 CFR 1.475(a), a national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept ("requirement of unity of invention"). Where a group of inventions is claimed in a national stage application, the requirement of unity of invention shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

The determination whether a group of inventions is so linked as to form a single general inventive concept shall be made without regard to whether the inventions are claimed in separate claims or as alternatives within a single claim. See 37 CFR 1.475(e).

When Claims Are Directed to Multiple Categories of Inventions:

As provided in 37 CFR 1.475(b), a national stage application containing claims to different categories of invention will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories:

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(1) A product and a process specially adapted for the manufacture of said product; or

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- (2) A product and process of use of said product; or
- (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or
- (4) A process and an apparatus or means specifically designed for carrying out the said process; or
- (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process.

Otherwise, unity of invention might not be present. See 37 CFR 1.475(c).

3. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 20, (in part), 21-24, drawn to a method for treatment of sleep disturbance due to silent gastro-esophageal reflux comprising administering a potassium-competitive acid blocker (p-CAB) of Formula I.

Group II, claim(s) 20 (in part), drawn to a method for treatment of sleep disturbance due to silent gastro-esophageal reflux comprising administering a potassium-competitive acid blocker (p-CAB) not included in Group I.

Group III, claim(s) 32 (in part), 33, drawn to a method for treatment of sleep disturbance due to silent gastro-esophageal reflux comprising administering the reversible proton pump inhibitor soraprazan.

Group IV, claim(s) 32 (in part), drawn to a method for treatment of sleep disturbance due to silent gastro-esophageal reflux comprising administering a reversible proton pump inhibitor not included in Group III.

Group V, claim(s) 25-27 (in part), 28-31, drawn to a pharmaceutical formulation for the treatment of sleep disturbance due to silent gastro-esophageal reflux, comprising a p-CAB compound of Formula I.

Group VI, claim(s) 25-27 (in part), drawn to a pharmaceutical formulation for the treatment of sleep disturbance due to silent gastro-esophageal reflux, comprising a p-CAB compound not included in Group V.

Group VII, claim(s) 34-36 (in part), 37, drawn to a pharmaceutical formulation for the treatment of sleep disturbance due to silent gastro-esophageal reflux, comprising the reversible proton pump inhibitor soraprazan.

Group VIII, claim(s) 34-36 (in part), drawn to a pharmaceutical formulation for the treatment of sleep disturbance due to silent gastro-esophageal reflux, comprising a reversible proton pump inhibitor not included in Group VII.

4. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The inventions lack unity of invention because the groups do not share the same or corresponding technical feature. For instance, the compounds of Group I (formula I) have different core structures (with a fused bicyclic structure) from the compound of Group III (which has a fused tricyclic structure in place of the bicyclic structure); other compounds of Groups II and IV may contain any structure, not related; furthermore the inventions utilize two different classes of compounds.

Additionally, compounds of formula I are taught in the prior art, for example in Amin et al. (WO 99/55706; 1999; IDS 5/2/2006 reference; see structure in abstract). Therefore the inventions do not share a corresponding technical feature, a priori.

5. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

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The species are as follows:

If any one of Groups I-II, IV-VI, or VIII is elected, applicant is required to elect:

(i) a single disclosed compound specie; elect from the compounds recited in

claims 23 or 30 or a single compound specifically disclosed in the

specification, and identify whether the elected compound is in the form of

the hydrochloride or mesylate salt (claims 24, 31);

Note: Applicant is cautioned that the election of a compound under (i) that is not

specifically disclosed will constitute New Matter.

and

If any one of Groups V-VIII is elected, applicant is also required to elect:

(ii) a formulation specie, elected from claims 26, 27, 35 or 36.

Applicant is required, in reply to this action, to elect a single species to which the

claims shall be restricted if no generic claim is finally held to be allowable. The reply

must also identify the claims readable on the elected species, including any claims

subsequently added. An argument that a claim is allowable or that all claims are

generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim.

6. The claims are deemed to correspond to the species listed above in the following

manner:

(i) all claims

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(ii) claims 26-27 and 35-36

The following claim(s) are generic: claims 20-32 and 34-36 are generic for (i).

7. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

The species lack a single general core structure for the compounds of the claims, as pointed out above. The technical feature linking species of (ii) is a pharmaceutical formulation Amin et al. (WO 99/55706; 1999; IDS 5/2/2006 reference) teaches compounds of Formula I (see structure in abstract); and their use in pharmaceutical preparations (p. 16, lines 10-18). Therefore the technical feature linking the species (i) is lacking a priori, and (ii) taught in the prior art, rendering the technical feature not "special". Accordingly the species are not so linked by the same or a corresponding technical feature as to comprise a single general inventive concept.

8. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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10. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result**

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in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY P. THOMAS whose telephone number is (571)272-8994. The examiner can normally be reached on Monday-Thursday 6:30 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel can be reached on (571) 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy P Thomas/ Examiner, Art Unit 1614 Application/Control Number: 10/578,093 Page 9

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/Ardin Marschel/ Supervisory Patent Examiner, Art Unit 1614